18th COMPUTEX TAIPEI

Five days that redefine IT

our visit to the eighteenth COMPUTEX TAIPEI (Taipei International Computer Show) places you in the heart of the dynamic IT industry. Vendors and buyers know that past COMPUTEX TAIPEI shows have helped put Taiwan on the map by staging major IT changes, and this year's show (June 2–6) will be no exception.

Premiering in 1998 are top-notch professional conferences and seminars launched by the China External Trade Development Council (CETRA), and Taipei Computer Association (TCA), the organizers of the show.

So much is going on at COMPUTEX TAIPEI that we're giving seminar-goers a head start by beginning conferences one day before the show. On June 1, you can attend the greatly awaited "Inside the Tornado" conference, jointly sponsored by the show organizers and BYTE magazine. It will be chock-full of the cyber-visions and tips you need for high-tech marketing success.

Meanwhile, I apologize to the hundreds of companies who are still on the waiting list for the very limited space at COMPUTEX TAIPEI. If you didn't get a booth, please understand that we've tried our best. We've stretched this double-venue exhibition to record size in order to encompass 900 high-tech vendors. And, we're working to offer you more space at next year's show by hammering together a third venue.

For the first time in the show's history, 67 accessory companies will join with 22 world-famous computer firms in the Stellar Hall of the Taipei International Convention Center.

You will discover many hot products at the Taipei World Trade Center Exhi-



bition Hall in areas devoted to Computer Systems, Components & Parts, Communications, Board-level Products, Displays, Peripherals, Software & Applications, Overseas Exhibits, and the Trade Media. As in previous shows, the Convention Center will be open until 6 p.m. for the first four days, one hour longer than the Exhibition Hall.

I urge you to profit from and enjoy Asia's largest IT marketplace, COMPUTEX TAIPEI '98. To plan your visit in advance, drop by our Web site (http://www.computextaipei.org) for details on the conferences and seminars, as well as free services offered by us.

See you at the show!

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Ricky Y.S. Kao

Secretary General, China External Trade Development Council

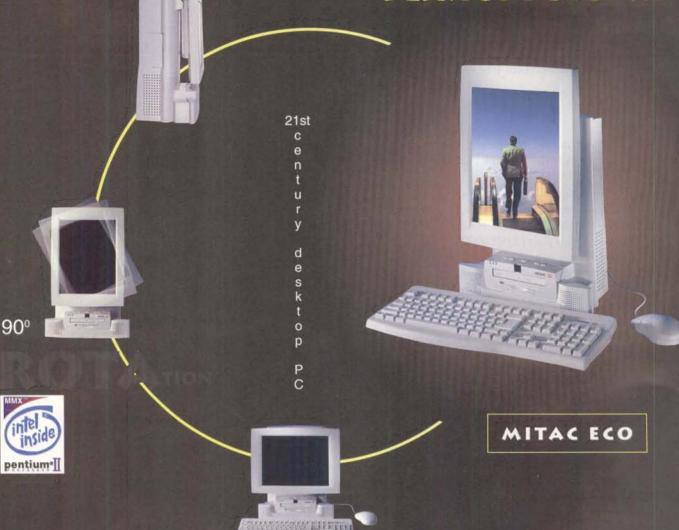
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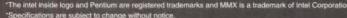
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Confused by all the choices at the show?



Maybe we can help.

s you stroll down the aisles at Computex, you'll see that some products belong in a class by themselves. We've listed some of them here, and in subsequent pages of this guide, to give you an idea of what you'll find at the show. We've also included a handy scorecard you can use to jot down products, specifications, booth numbers, and pricing information as you tour Computex.

Get Connected to the Internet The Internet's increasing popularity has brought us several new ways to connect, from very high-end RAS servers to inexpensive devices whose sole purpose is to provide a quick connection.

NetPCs are coming on fast, for example, but manufacturers are hedging their bets by giving them PC-like features. FIC's PY-200 series are 82440LX- and BX-based NetPCs with optional snap-in expansion boxes that turn them into full-featured desktop units. Mitac's Essentia II, a NetPC that weighs a mere 5 kilos, also accepts desktop-style upgrades.

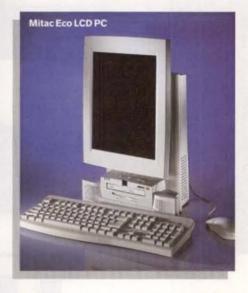
And there are various devices that let you navigate the Internet and access your e-mail, but that provide no storage or memory functions. Designs include set-top boxes, video game-type machines, and smartphones.

Acer's ST-300 is an example of a set-

top design based on a digital broadcast satellite receiver with an LSI logic engine. The ST-300 supports DVD functions including MPEG-2 and AC-3 decoding.

Moniputer A moniputer is an all-inone system that can best be described as a cross between a desktop and notebook computer. Harking back to the original Macintosh design, the all-in-one monitor takes up very little space on a desktop. The moniputer works equally well as a home computer or connected to a corporate LAN.

Mitac's moniputer, prominently positioned at the show, sells for about 20 percent less than a comparable notebook. The Eco LCD PC offers a DSTN or TFT LCD screen, in 13.3- or 15-inch styles. The screen pivots 90 degrees, and the system operates on wake-up mode and LAN wake up, in the event that it is connected to a LAN.









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Demand for Comm Tools Grows



ith increased Internet traffic, demand for high-speed communications links and the tools to enable them is growing at an unprecedented pace.

Cable and telephone companies throughout the world are vying for a piece of the hottest communication action by offering high-speed designs. At the same time, more traditional modem manufacturers are pushing the speed envelope to the limits of standard dial-up connections. Devices that directly connect you to the Internet are emerging in all shapes and sizes, from T1 connections to set-top boxes.

When selecting a device, ask the vendor questions about the following important features. Your answers will help you select the most appropriate communications technology for your needs, geographic location (probably the most important consideration of all), and, of course, your budget.

Infrastructure support This is vital, since newer technologies are usually extremely limited in availability. What types of devices can I use in my local area? While analog telephone service or standard T1 lines are available in many areas,

your region may not support more exotic choices such as cable modem or ADSL.

Internet service availability Ask if your local Internet service providers (ISPs) support this communications device before buying. What are the additional charges for this service?

Top transmission rates When considering the purchase of a new communications technology, be sure to ask the vendor about the devices' maximum transmission speeds in both the upstream (user to host computer) and downstream (host computer to user) directions. With many newer technologies, upstream speeds can sometimes be a fraction of the overall downstream rate. ADSL, v.90 (formerly known as 56K), satellite, and sometimes cable modem transmissions fall into this area.

Typical connection costs The base Internet access price advertised by most ISPs is for standard analog phone connections. Switch to a faster transmission method, such as the ones listed below, and you may pay higher—sometimes much higher—prices in order to make your connections.

Configuration How does the device connect to your computer? Does it require an Ethernet card, PC expansion slot, or serial port? Does it require a separate power connection?

Technology types: 56K (V.90) The recent adoption of the V.90 standard means you'll see plenty of new modems (and upgrades for older modems) at this show. Check to make sure which 56K standards your ISP supports, however, before making a choice.

Cable Cable TV lines potentially can carry data hundreds of times faster than the best analog modems. Older systems are one way only. Two-way solutions, such as E-Tech's DataBurst, provide turnkey connections up to 2.56 Mbps upstream and 30 Mbps downstream for as many as 16 users.

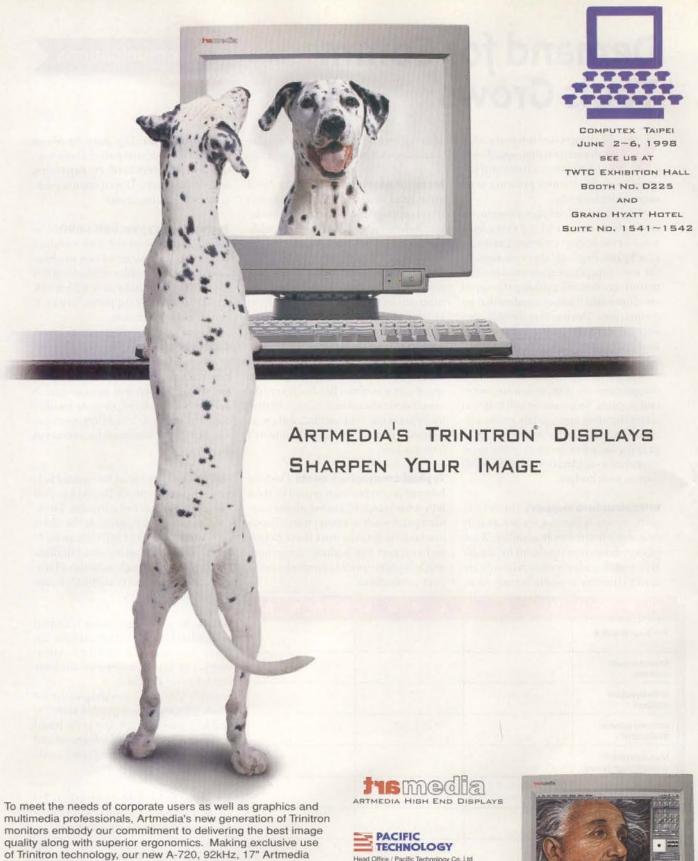
ISDN The expense of Integrated Services Digital Network (ISDN) has prevented its widespread adoption. However, prices are dropping. At the show, look for E-Tech's TA128E/USB, an ISDN terminal adapter that features Multilink PPP at 128 Kbps using bandwidth allocation control protocol (BACP)/BAP. It supports USB interfacing.

ADSL An evolving standard, Digital Subscriber Line (DSL) technologies can move data as fast as 30 Mbps. Asymmetric DSL (ADSL) lets you use the same line for voice and data.

GVC's ADSL modem, highlighted at the show, is backward-compatible with V.90 and V.34 modems. It features PC-based implementation, easy deployment and installation, and provides ATM cell mode by supporting PPP over ATM.

T1 Need a fast, reliable connection? Try an old-fashioned T1 line. GVC's remote access server provides virtual private network (VPN) connections over the Internet using older 1.5-Mbps T1 technologies. It simultaneously offers four channelized T1/E1 connections for up to 96/128 Internet calls and two nonchannelized T1/E1 connections for a remote corporate LAN.

PROD	U	С	 _	_	0	R		 R	D
Product/Booth #									
Manufacturer contact									
Infrastructure support									
Internet service availability									
Max. upstream/ downstream speed									
Typical connection costs									
Configuration requirements									
Type of technology					1=				
Volume pricing options									
Delivery options									



quality along with superior ergonomics. Making exclusive use of Trinitron technology, our new A-720, 92kHz, 17" Artmedia Trinitron monitor, delivers the highest cost-performance display solution with all of Trinitron's advantages. Last but not least, our new Artmedia flat panel displays will open new business opportunities for you. You will be impressed by the newest members of our family! Come check it out.













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Tried-and-True Monitors, New Prices

CRT Monitors

hey're not as glamorous as newer LCD screens but cathode ray tube (CRT) monitors continue to dominate the display market. In selecting a CRT, the following are important specifications to keep in mind:

Tube type With CRTs, there are essentially three choices of tube: aperture grille, Invar shadow mask, and NEC's CromaClear. This year's Computex will include several variations on the technologies, but in general, the aperture grille displays a bright and crisp in age; the Invar shadow mask produces a more detailed image, and the CromaClear is known for its excellent horizontal focus.

Size/Form factor The viewable screen area of a monitor is measured diagonally across the screen. Today's monitors are large, with 17 inches fast becoming the standard desktop size. With prices coming down and increased use of graphically oriented operating systems, 21-inch monitors are gaining popularity. For example, see the AcerView 211c from Acer Peripherals, a 21-inch CRT based on Hitachi's high-contrast CRTs. Mag's XJ910 is another 21-inch monitor that's worth a look.

options

The depth of larger monitors is a concern for many desktop users, and manufacturers have responded by offering minineck and short-depth CRTs, which take up less depth on the desktop while offering the same viewable screen area. Chuntex Electronics' 1995SL, making its debut at the show, is a 19-inch short-length minineck CRT monitor. Using Hitachi's superhigh-contrast tube, the 1995SL consumes approximately the same amount of power as a traditional 19-inch unit.

Resolution Resolution (the number of pixels in a given space on the screen) is an important consideration. Lower resolution means less information on the screen.



PR	0	D	U	C	T	S	C	0	R	E	C	A	R	D
Product/Boo	oth#													
Manufacture contact	r													
Tube type														
Form factor/ Screen size			. 1											
Resolutions supported												4		
Refresh rate					-									
USB connect	ions													
Safety stand supported	ards													
Volume pricing optio	ns											h		
Delivery														



but the text is larger and easier to read.

Dot pitch is the amount of space between phosphors of the same color. Measured in millimeters, dot pitches often range from .25 to .51 mm. Aperturegrille CRTs use a similar measurement, known as stripe pitch. In general, the smaller the dot pitch, the sharper the image on screen, but beware: Not all manufacturers measure dot and stripe pitch in the same way.

Refresh rate The refresh rate, measured in Hertz, tells you how many times per second the monitor redraws the image. A standard refresh rate is at least 75 Hz at 1024 by 768. Anything lower than 75 Hz shows a discernable flicker, which can result in eyestrain and fatigue.

USB standard The Universal Serial Bus (USB) standard allows you to connect up to 127 devices to a PC without internal cards or specialized slots. Mag Innovision's XJ810-U is a 19-inch monitor with Hitachi's high-contrast CRT that supports the USB standard. It offers an optional USB base, an integrated monitor base, and a USB hub.

Safety standards Low-emission monitors emit Extremely Low Frequency (ELF) or Very Low Frequency (VLF) electromagnetic radiation (EMR). But for those concerned with meeting the most stringent emissions standards, you're safest with monitors that adhere to TCO 95 or Swedish MPR II standards.

GVC Unveils Flat Panel Displays

The First Consumer Priced Desktop 15" Color LCD Monitor

Again GVC Corporation takes the lead in display field with L5MX, an ergonomic 15" LCD monitor. This large screen, small foot-print monitor with PnP and rotating function software for ultra-crisp XGA display is the best overall buy.

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- Pivotable Display
- Most Green
- Detachable Audio System & Microphone
- USB
- Imbedded Power System

90 Pivotable

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Flat Is All the Rage

iquid crystal displays (LCDs) are not just for notebooks anymore. Advances in LCD technology have now made color LCD monitors available in larger sizes that are comparable to traditional cathode ray tube (CRT) monitors.

The attractive-and extremely fashionable-LCD panels take up far less room on the user's desktop than a standard monitor. They also come in a wide range of sizes; some ultrawide versions may be 48 inches (or more) across. Prices on these peripherals are dropping rapidly as the demand for them grows; you'll see some very affordable LCD models at the show.

Active or passive matrix Passive matrix is the less expensive of the two color technologies used in LCDs. The pricier active matrix or Thin Film Transistor (TFT) technology produces color that is as sharp and clear as that of a topof-the-line CRT.

Passive-matrix displays using new CSTN and DSTN technologies, however, can produce sharp colors as well. In fact, some newer passive-matrix displays are every bit as sharp and high quality as their active-matrix cousins.

Size One of the biggest advantages of LCD monitors is that they are slim and don't weigh very much. That's why in the past this technology was used primarily for notebook computers. But today's lower costs are now making LCD monitors popular for integrated desktops such as moniputers.

Most flat-panel displays can also be mounted on a wall; some versions are actually used in well-appointed offices and homes as "dynamic art galleries." Many flat-panel displays offer optional wall-mounting kits for a nominal

For an example of a high-quality large-screen LCD at Computex, take a look at Mag Innovision's LT810 and LT811, which are both 19.1-inch digital and analog active-matrix LCD monitors with maximum resolutions of 1280 by 1024 pixels.

LCDs are available in both landscape and portrait orientations. Landscape, with a greater horizontal dimension, is the more traditional. Some LCDs let you toggle between the two modes.

Analog vs. digital Most LCD monitors today are digital; analog, the technology most commonly used in stan-





dard CRT monitors, is relatively rare. You'll see some exceptions here at the show, however.

Acer Peripherals' AcerView F61, a 16.1-inch analog LCD monitor, for example, is built around IBM panels. It can provide a maximum resolution of 1280 by 1024 pixels. A digital version is in the works.

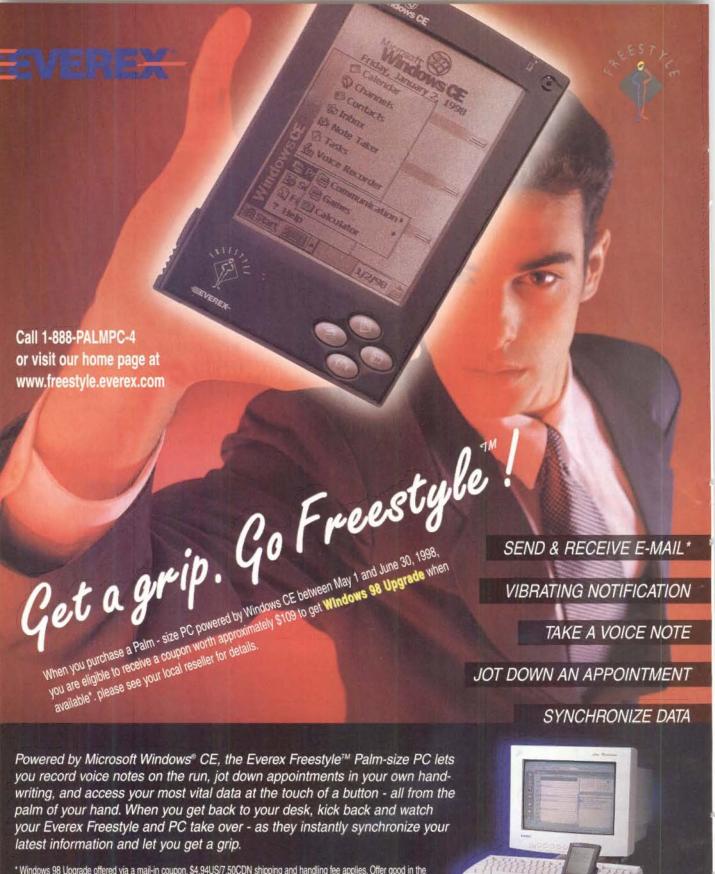
Speakers So that multimedia users won't have to go without sound, some LCD manufacturers include speakers in the base of the LCD. If your PC doesn't already have a sound system, this might be a desirable option.

Energy consumption Most LCDs consume very little energy, which makes them perfect for portable use. Large LCDs are also very energy efficient. If efficiency is a concern, look for those that meet Energy Star, MPR-II, or TCO 95 standards.

PanelLink Keeping electro-magnetic interference (EMI) levels down is a major concern for notebook manufacturers. As LCDs offer higher resolutions with greater color depths, more data lines are needed to run from the display to the motherboard.

PanelLink is a technology developed by Silicon Image that enables notebook manufacturers to reduce the number of signal lines between the motherboard and flat-panel display. Acer Peripherals' AcerView F50 is a 15-inch digital LCD that comes with a PanelLink interface.

P R O D	U	C	T	S	C	0	R	E	C	A	R	D
Product/Booth#												
Manufacturer contact												
Technology used												
Form factor/ Screen size						VIII.						
Analog/Digital?												
Speakers included?											M	
Energy consumption												
Panel link included?												
Volume pricing options										-		
Delivery options												



* Windows 98 Upgrade offered via a mail-in coupon. \$4.94US/7.50CDN shipping and handling fee applies. Offer good in the United States and Canada only. Must purchase a Handheld or Palm-size PC powered by Windows CE 2.0 operating system between May 1 and June 30th, 1998. 2.0 upgrades do not apply. To receive your copy of Windows 98 Upgrade, pick up the promotional mail-in coupon at your local reseller or print it off our Web site at www.microsoft.com/windowsce/palmpc/. Please follow the mailing and proof of purchase instructions. Please allow 6 to 8 weeks for product delivery once available.

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Computing in the Palm of Your Hand



n the past, hand-held and palmtop computers failed to take the computing world by storm. Their screens were largely thought to be difficult to read, if not unviewable, their keyboards were too small for adult hands, and they offered very few useful software applications.

Today's hand-held computers are a radical change from those early designs. They offer much better screens, function-oriented applications, larger keyboards or more responsive writing surfaces, and operating systems that more easily synchronize with your desktop system.

When choosing a palmtop or handheld computer, first consider how you plan to use it. If your only real need is to keep track of names, phone numbers, and a few days' worth of appointments, you'll want a simple and inexpensive organizer.

On the other hand, a powerful new hand-held can do real computing work. Some of the latest models even double as presentation devices. Many of the hand-held computers making their debut at Computex can display PowerPoint slide presentations.

For the best success, make a list of your requirements first, then look for the device that has features and options that most closely match your work style. The

features we've listed here correspond to the most common user needs.

Operating system Microsoft's Windows CE is an operating system designed for hand-held and palmtop computers. While not every manufacturer has embraced the Microsoft operating system, CE is a standard. Some manufacturers offer proprietary operating systems, which still have a full slate of functions. But if you want to go with a standard operating system, you may want to stick with Windows CE.

One of the hottest CE devices you'll see here, Hightech Computer's hand-held PC (HPC) VR-4111, uses a NEC MIPS 66- or 100-MHz processor, has 8 MB of RAM, and supports CompactFlash cards.

The hand-held also includes a 33.6-Kbps or 56-Kbps software fax/modem and an optional one-way pager card that lets you access Internet information, fax, modem, and telephone messages. It comes with a foldable cradle that serves as the docking station and recharger.

Form factor Hand-held devices range from tiny, plum-size two-way pagers with address-book capabilities to keyboardstyle units that will never begin to fit into the average business suit's shirt pocket.

Size and weight play an important role in the everyday use of a hand-held computer. Before you purchase any hand-held information appliance, make sure you'll be comfortable carrying the device for long periods of time.

Display type Hightech Computer's VR-411 sports a 3.8-inch active-matrix color LCD screen with a maximum resolution of 240 by 320.

Of course, not everyone needs full color, or even multiple shades of gray, in a hand-held device. If your work involves mainly sending and receiving e-mail and faxes, for example, a monochrome display may be all you need. Some hand-helds offer touch-sensitive screens useful for handwriting recognition and application navigation.

Input One of the greatest deterrents to using a computer is not feeling comfortable with the keyboard or input device. Today's palmtops and hand-helds have come a long way in this area, and many now have keyboards that adults can use with ease. Most also come with small pen-like pointers that you touch to the screen as if using a mouse.

Connectivity options To connect to the home office when on the road, make sure your palmtop or hand-held comes with a modem. And for updating and synching files on your desktop system, look for a docking station such as that which comes with the Hightech VR-4111. Be forewarned, however, that compatibility with desktop applications can be a problem. What you run on your hand-held may not completely translate to your desktop.

Batteries Lithium-ion batteries will give you the longest mobile work sessions. To keep working while unplugged, opt for more than one battery. For the most practical power, look for a palmtop or handheld that comes with a recharger. And be sure to check with the vendor on estimated battery life; adding a modem or other device to your hand-held can drop battery life dramatically.

PROD	U	C	I.	S	C	0	R	E	С	A	R	1
Product/Booth#												
Manufacturer contact												
Operating system supported												
Form factor (size, weight)										,		
Display type												
Input methods supported												
Connectivity options												
Batteries required/ Estimated life												
Volume pricing options												
Delivery options												

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New Ways to Deliver Data to the PC



nput devices let you enter text, graphics, and other data into the computer quickly and easily. Here's a list of some of our favorite input devices that you can expect to find on the Computex show floor.

Input devices run the gamut from the mice and keyboards found on virtually every PC to more exotic graphics tablets, voice-recognition systems, and joysticks. Each offers unique capabilities best-suited for particular types of data. The device you choose depends, in part, on the type and amount of data you'll be entering into the PC and the conditions under which you'll be working.

When choosing any type of input device, consider also the kind of connector you'll need to attach it to the PC. A serial or parallel connection, commonly required by some mice and graphics tablets, may prevent you from using other devices, such as printers, with your computer.

Other types of input devices may require the purchase of additional hardware and/or software before they will run properly. For more unusual devices or computer platforms, be sure to check first to make sure your system will support the new device.

Keyboards The keyboard is the most common input device. Most have a QWERTY typewriter layout, although there are many variations as far as placement of function keys and added features. For example, Silitek's SK-3100 is a 2-in-1 Smart-Card decoding keyboard. One of the input device highlights at this show, it has a card reader module integrated on the upper right corner. The keyboard (with the card decoder) connects through a single cable to the host's PS/2 port, or optionally through the USB interface. The device decodes all ISO 7816-3-compliant smartcards.

Mice A mouse is optimized for pointing, clicking, dragging, and dropping your way through the graphically oriented operating systems we use today. Most are based on optical or mechanical technology, with two to five buttons for selecting and manipulating text and graphics.

Some have a wheel that helps you automatically scroll through pages on the Internet. KYE's NewScroll is an Internet mouse with browsing gear that lets you turn Web pages without moving the mouse. The NewScroll comes with Easy-Jump software that enables customized HyperLink and double-clicking, and



the mouse comes in wired and infrared models. Infrared mice let you operate without a cord.

Pens Digital pens are mouse substitutes that are shaped like traditional pens but rely on handwriting-recognition or line-drawing technology for interpretation by the computer. Pens come in corded and cordless models, with most cordless models getting power from internal batteries. Most pens also come with touch-sensitive pads for use as a mouse.

Joysticks Joysticks plug into the 15-pin game port usually found on an audio card. In the past, joysticks were simple sticks that moved on x and y axes and had a single button. Today, joysticks are advanced digital-optical devices with molded handgrips, rapid-fire triggers, and special yokes, and some offer tactile feedback for full multimedia effect.

Tablets Digitizing and graphics tablets combine touch-pad and stylus technology. Designed for high-end graphics and CAD work, many tablets support resolutions of 1000 dpi and more. Pressure-sensitive tablets measure *x*- and *y*-axis coordinates. Some pressure-sensitive touch pads offer *z*-axis measurement as well.

Voice Voice-input systems can have vocabularies in the tens of thousands or more and can be used to control your computer as well as to input documents. If hands-free operation is a must, be sure any voice-recognition system you choose supports it. Many voice-input systems vary according to the rate of speech, measured in words per minute, that the system is capable of understanding.

PROD	U	С	S	C	0	R	E	C	A	R	D
Product/Booth #											
Manufacturer contact											
Type (keyboard, mouse, etc.)											
Connector required											
Additional hardware required											
Additional software required											
Ergonomic considerations											
Additional features/Notes											
Volume pricing options											
Delivery options											



Trade Show Exhibitors' Guide

Name of Exhibitor	Booth Number(s)	Asia Vital Components Co., Ltd.	A803	Chia Shin Technology Corp.	C919
DMC		Askey Computer Corp.	A534	Chic Technology Corp.	C820
A		Assure Kudos Trading Co., Ltd.	A305	Chicony Electronics Co., Ltd.	T201E
A-Case Industrial Inc.	C1035	Astar Technologies Co., Ltd.	C1137	Chieftec Industrial Co., Ltd.	A1121
A-Four Tech Co., Ltd.	C413	Astra Commucnicaton Corp.	D615	Chin Ta Industrial Col., Ltd.	T3073
A-Trend Technology Co., Ltd.	D734	Astrotek Limited	D212	Ching Tai Electric Wire & Cable Co., Ltd.	C717
A.R.M. Microsystems Corp.	D320	Asustek Computer Inc.	D708	Ching-San Wire & Cable Co., Ltd.	A1419
Aaeon Technology Inc.	D525	Aten International Co., Ltd.	C313	Chroma Ate Inc.	C422
Aamax Technology Co., Ltd.	B335	ATI Technologies, Inc.	C1014	CHS Summit Enterprise Co., Ltd.	A1112
Aashend Technology Inc.	C522	Atng Power Co., Ltd.	A412	Chuan Rong Industries Co., Ltd.	C635
Aavid Taiwan Inc.	A704	Atoz Technology (Taiwan) Inc.	C431	Chun Long Metal Co., Ltd.	A1016
ABA Locks Manufacturer Co., L	td. C1030	Atrie Technology Inc.	A219	Chun Yun Electronics Co., Ltd.	D209
Abacus Talwan Computer Co., L	.td. A1416	Aurora Corp.	B226	Chunghwa Picture Tubes, Ltd.	D002
Abit Computer Corporation	T201B	Aus Linx Technology Co., Ltd.	A118	Chuntex Electronic Co., Ltd.	T101A
Ably-Tech Corporation	B431	Auspro lechnologies Corporation	A205	Chyang Fun Industry Co., Ltd.	A408
AC Power Corp.	C216	Autek Electronics Co., Ltd.	A1319	Circle Heart Enterprise Co., Ltd.	T3034
Access Computer Inc.	A217	Auvistar Industry Co., Ltd.	B334	CIS Technology Inc.	A528
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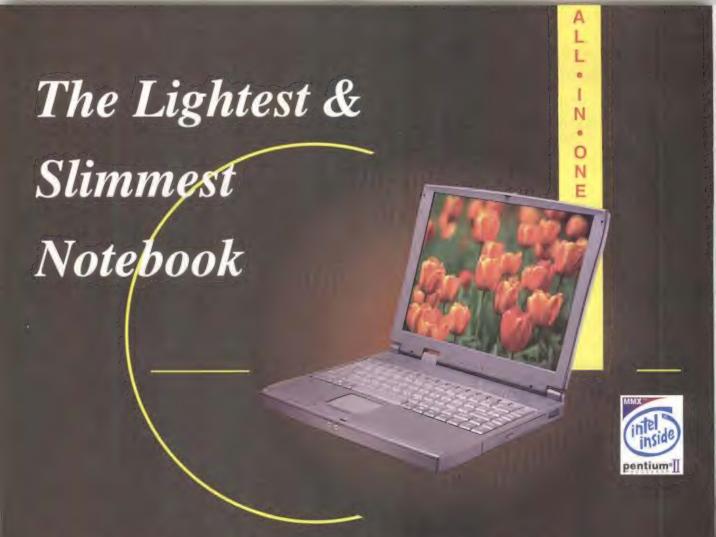
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Microtek International Inc. Midland Inc. C Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Ming Fortune Industry Co., Ltd. Mitac Inc. Mitac Inc. Mitate International Corp. Missutech International Corp. Moneteey International Corp. Moretee Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 . A404 A804	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824 P/E Planet Technology	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337
Microtek International Inc. Midland Inc. C Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretee Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd.	TF1 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Planet Technology Plato Technology Co., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337
Microtek International Inc. Midland Inc. C Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretee Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd.	TF1 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 /B824P/E Planet Technology Plato Technology Co., Ltd. Plustek Inc.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337
Microtek International Inc. Midland Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretee Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B	TF1 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616	Pei Chow Industry Co., Ltd Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Planet Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337
Microtek International Inc. Midland Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretee Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 /B824P/E Planet Technology Plato Technology Plato Technology Plato Technology Polytek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337
Microtek International Inc. Midland Inc. C Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Milac Inc. Mitac Inc. Mitac International Corp. Mistatech International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824 / E Planet Technology Plato Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C634 C613 C513
Microtek International Inc. Midiand Inc. C Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Milac Inc. Mitac Inc. Mitac International Corp. Mistutech International Corp. Monterey International Corp. Moretee Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824 P/E Planet Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C634 C613 C513 D401 C610 D102
Microtek International Inc. Midiand Inc. C Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac Inc. Mitac International Corp. Mitsutech International Corp. Moneterey International Corp. Monetere Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901	Pei Chow Industry Co., Ltd Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation	D326 C622 T3033 B710 A1014 T3088 D106 T3068 A409 A337 C634 C613 C513 D401 C610 D102 D/B910P/
Microtek International Inc. Midland Inc. Midland Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitate International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multivewer Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430	Pei Chow Industry Co., Ltd Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Planet Technology Plato Technology Co., Ltd. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Potrans Electrical Corp., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salf International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B910	D326 C622 T3033 B710 A1014 T3088 D106 T3068 A409 A337 C634 C613 C513 D401 C610 D102 D/B910P/
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B9	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/B910P/
Microtek International Inc. Midland Inc. Midland Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitate International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multivewer Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430	Pei Chow Industry Co., Ltd. Perboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Planet Technology Plato Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B9 San Shih Electrical Enterprise Co., Ltd. Sandmartin Company Ltd. Sea Sonic Electronics Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/B910P/ 16/B916P T3002 C524 A819
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitate International Corp. Moretec International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. N	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B910 B912/B912P/B914/B914P/B9: San Shih Electrical Enterprise Co., Ltd Sandmartin Company Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 D/B910P/ 16/B916P T3002 C524 A819 D314
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitate International Corp. Moretec International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Co., Ltd. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portrait Displays,Inc Portrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B910 B912/B912P/B914/B914P/B9: San Shih Electrical Enterprise Co., Ltd Sea Sonic Electronics Co., Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp.	D326 C622 T3033 B710 A1014 T3088 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/8910P/ 16/B916P T3002 C524 A819 D314 A1321
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitate International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Co., Ltd. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portrait Displays,Inc Portrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B912/B912P/B914/B914P/B9: San Shih Electrical Enterprise Co., Ltd Sandmartin Company Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C634 C613 C513 D401 C610 D102 D/B910P/ 16/B916P T3002 C524 A819 D314 A1321 C219
Microtek International Inc. Midiand Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Millen Inc. Mitac Inc. Mitac International Corp. Mosterey International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/B8	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Perpboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Planet Technology Plato Technology Cor., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd. Premax Electrorics,Inc Tawan Branch Pride Expression Technology Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Sait International Corp. Sampo Corporation Sampo Technology Corp. Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B912/B912P/B914/B914P/B9: San Shih Electrical Enterprise Co., Ltd Sendmartin Company Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 D/B910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Milennium Technology Co., Ltd. Milac Inc. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. N National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/Bt. Neltron Industrial Co., Ltd.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Perphoy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / B824P/E Planet Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Mart Industry Co., Ltd. Power Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd. Premax Electronics,Inc Taiwan Branch Primat Industrial Co., Ltd. Primat Industrial Co., Ltd. Primat Industrial Co., Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B910 B912/B912P/B914/B914P/B9: San Shih Electrical Enterprise Co., Ltd Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/B910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitautech International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Tawan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Talwan Branch B1025/B1027/B0. Nettron Industrial Co., Ltd. Nevatec Electronic Corp.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Perpboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd. Premax Electronics,Inc Tawan Branch Primat Industrial Co., Ltd. Primax Electronics,Inc Tawan Branch Primat Industrial Co., Ltd. Primax Electronics Ltd.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salf International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B9 San Shih Electrical Enterprise Co., Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/8910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Milac Inc. Mitac Inc. Mitac International Corp. Mosterey International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/B6 Nettron Industrial Co., Ltd. Nevatec Electronic Corp. New Techinternational Co., Ltd.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827	Pei Chow Industry Co., Ltd. Perphoy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Co., Ltd. Poliestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portrait Displays,Inc Portrait Displays,Inc Power Mart Industry Power Mart Industry Power Mart Industry Power Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd. Premax Electronics,Inc Taiwan Branch Pride Expression Technology Ltd. Primat Industrial Co., Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primrose International Inc.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310 T3101	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B9: San Shih Electrical Enterprise Co., Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd.	D326 C622 T3033 B710 A1014 T3088 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/B910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Millen Inc. Mitac Inc. Mitac International Corp. Mitac International Corp. Moretec Electronics Industrial Co., Ltd. Moret Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/B6 Nettron Industrial Co., Ltd. Nevatec Electronic Corp. New Techniternational Co., Ltd. Newman, Hope & Co. Inc.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 C621 B425 C901 C430 B827 926P/B928P A1211 A303 D623 C1024 C1017 B223	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays, Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd. Primax Electronics, Inc. Taiwan Branch Pride Expression Technology Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primrose International Inc. Princeton Technology Corp.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310 T3101 A818	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Sail International Corp. Sampo Technology Corp. Sampo Technology Corp. Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B912/B912P/B914/B914P/B91 San Shih Electrical Enterprise Co., Ltd Sendmartin Company Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. SGS-Thomson Microelectronics (Pte) Ltd. B1033/B1035/B1037/B934P/B936	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 D/B910P/ I6/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitac International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. Nuste Corporation Mylex Corp. New Technology Ltd. Nevatec Electronic Corp. New Technology Ltd. Nevatec Electronic Corp. New Technology Ltd. Newman, Hope & Co. Inc. Newseed Electronics Co., Ltd.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827 926P/B928P A1211 A303 D623 C1024 C1017 B223 T3100	Pei Chow Industry Co., Ltd. Pepboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technologies Ltd. Pine Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Pianet Technology Plato Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Powertech Industrial Co., Ltd. Primax Electronics,Inc Taiwan Branch Pride Expression Technology Ltd. Primat Industrial Co., Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Princeton Technology Corp. Princo Corp.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310 T3101 A818 C530	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B910 B912/B912P/B914/B914P/B9 San Shih Electrical Enterprise Co., Ltd Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics (Pte) Ltd. B1033/B1035/B1037/B934P/B936 Shamrock Technology Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 D/B910P/ I6/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022 A1022
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Might Electronic Co., Ltd. Milannium Technology Co., Ltd. Milac Inc. Mitac Inc. Mitac International Corp. Missutech International Corp. Monterey International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/B6 Neltron Industrial Co., Ltd. Nevatec Electronic Corp. New Techinternational Co., Ltd. Newseed Electronics Co., Ltd. Newseet Electronics Co., Ltd. Newsoft Technology Corporation Nicetel Electronic Cop.	TF1 1118/C1217 D422 C1032 A304 B230 T101B D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827 926P/B928P A1211 A303 D623 C1024 C1017 B223 T3100 C1134	Pei Chow Industry Co., Ltd. Perpboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Co., Ltd. Plustek Inc. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Mart Industry Co., Ltd. Power Mart Industry Co., Ltd. Powertech Industrial Co., Ltd. Premax Electronics,Inc Taiwan Branch Primat Industrial Co., Ltd. Primat Industrial Co., Ltd. Primat Electronics Ltd. Primat Electronics Ltd. Primat Electronics Ltd. Primac Oorp. Pro Team Computer Corporation	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3079 B930/B932 D310 A206 C310 T3101 A818 C530 D718	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailling Strong International Co., Ltd. Salt International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B91 San Shih Electrical Enterprise Co., Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd. Seignost Science Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Schannock Technology Co., Ltd. Shinestar Enterprise Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/B910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022 FP/B938P D134 T3071
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitac International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/Bt Nettron Industrial Co., Ltd. Nevatec Electronic Corp. New Techniternational Co., Ltd. Newsed Electronics Co., Ltd. Newsed Electronics Co., Ltd. Newset Technology Corporation Nicetel Electronic Co., Ltd. Norm Pacific Automation Corp. Novia International Corp.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827 926P/B928P A1211 A303 D623 C1024 C1017 B223 T3100 C1134 A1104	Pei Chow Industry Co., Ltd. Perpboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technology Ltd. Pine Technology Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Co., Ltd. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Pomera Electronics,Inc Tawan Branch Primat Industrial Co., Ltd. Primax Electronics,Inc Tawan Branch Primat Industrial Co., Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Princeton Technology Corp. Prince Corp. Pro Team Computer Corporation Pro-Ana International Inc.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310 T3101 A818 C530 D718 C837	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salf International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B9 San Shih Electrical Enterprise Co., Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Seven Stage Industrial Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Shinester Enterprise Co., Ltd. Shinester Enterprise Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/8910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022 FP/B938P D134 T3071 C120
Microtek International Inc. Midiand Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Milannium Technology Co., Ltd. Mitac Inc. Mitac Inc. Mitac International Corp. Mitautech International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL. Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. N National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/B6 Nettron Industrial Co., Ltd. Newatec Electronic Corp. New Techniternational Co., Ltd. Newsed Electronic Co., Ltd. Newsed Electronic Co., Ltd. Newsed Electronic Co., Ltd. Newset Technology Corporation Nicetel Electronic Co., Ltd. Norm Pacific Automation Corp. Novia International Corp. NTK Computer Inc.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827 926P/B928P A1211 A303 D623 C1024 C1017 B223 T3100 C1134 A1104 C427	Pei Chow Industry Co., Ltd. Perphoy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technologies Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh B824 / B824P/E Planet Technology Plato Technology Co., Ltd. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portrait Displays,Inc Portrait Displays,Inc Power Mart Industry Power Mart Industry Co., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Primax Electronics,Inc. Taiwan Branch Pride Expression Technology Ltd. Primat Industrial Co., Ltd. Primat Industrial Co., Ltd. Primat Electronics Ltd. Primat Electronics Ltd. Primceton Technology Corp. Prince Corp. Pro Team Computer Corporation Pro-Nets Technology Corp.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310 T3101 A818 C530 D718 C837 A318	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royal Information Electronics Co., Ltd. Royal Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Sail International Corp. Sampo Corporation Sampo Technology Corp. Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd B910 B912/B912P/B914/B914P/B9 San Shih Electrical Enterprise Co., Ltd Sandmartin Company Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Senor Science Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Shinestar Enterprise Co., Ltd. Shinestar Enterprise Co., Ltd. Shinestar Enterprise Co., Ltd. Shinestar Enterprise Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C634 C613 C513 D401 C610 D102 C524 A819 D314 A1321 C219 A234 A1012 A1022 SP/B938P D134 T3071 C120 d. D624
Microtek International Inc. Midiand Inc. Midiand Inc. Might Electronic Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Millennium Technology Co., Ltd. Mitac Inc. Mitac International Corp. Mitac International Corp. Moretec Electronics Industrial Co., Ltd. Morex Information Enterprise Co., Ltd. Mosel Vitelic Inc. Motorola Electronics Taiwan, Ltd. B1209/B1210/B1211/B B1214/B MSL Enterprises Corp. Multipower Technology Ltd. Multiventure Marketing Corp. Must System Inc. Mustek Corporation Mylex Corp. National Semiconductor(Far East) Ltd. Taiwan Branch B1025/B1027/Bt Nettron Industrial Co., Ltd. Nevatec Electronic Corp. New Techniternational Co., Ltd. Newsed Electronics Co., Ltd. Newsed Electronics Co., Ltd. Newset Technology Corporation Nicetel Electronic Co., Ltd. Norm Pacific Automation Corp. Novia International Corp.	TF1 1118/C1217 D422 C1032 A304 B230 T1018 D315 C321 A404 A804 A616 1212/B1213 1215/B1216 A1105 C621 B425 C901 C430 B827 926P/B928P A1211 A303 D623 C1024 C1017 B223 T3100 C1134 A1104	Pei Chow Industry Co., Ltd. Perpboy International Co., Ltd. Perfect-Three Manufacturing Corp. Pheecom Technology Corp. Phoenix Technology Ltd. Pine Technology Ltd. Pine Technology Ltd. Pingood Enterprise Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Industries Co., Ltd. Pinnacle Systems Gmbh 8824 / 8824P/E Planet Technology Co., Ltd. Polestar Tech. Corp Pongee Industries Co., Ltd. Pora Corporation Portrait Displays,Inc Portwellinc. Potrans Electrical Corp., Ltd. Power Industry Power Mart Industry Co., Ltd. Power-Win Technology Corp. Powercom Co., Ltd. Pomera Electronics,Inc Tawan Branch Primat Industrial Co., Ltd. Primax Electronics,Inc Tawan Branch Primat Industrial Co., Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Primax Electronics Ltd. Princeton Technology Corp. Prince Corp. Pro Team Computer Corporation Pro-Ana International Inc.	D414 T3051 C831 A121 B622 B936/B938 A712 C925 826/B826P A313 D721 C1001 C425 C1129 A425 B728 B422 C725 C1115 T3043 A917 C713 T3079 B930/B932 D310 A206 C310 T3101 A818 C530 D718 C837	Rise Computer Inc. Ritek Corporation Rixcom International Corp. Rockwell Semiconductor Systems Roger Chen Enterprise Co., Ltd. Rota Technology Inc. Royal Information Electronics Co., Ltd. Royce Enterprise Co., Ltd. Ruby Tech Corporation Runtop Inc. S S S I Computer Corp. Saho Corporation Sailing Strong International Co., Ltd. Salf International Corp. Sampo Corporation Sampo Technology Corp. Samsung Electronics Taiwan Co., Ltd. B912/B912P/B914/B914P/B9 San Shih Electrical Enterprise Co., Ltd. Sea Sonic Electronics Co., Ltd. Seigyo Corporation Send-Victory Corp. Seven Stage Industrial Co., Ltd. Sercomm Corp. Seven Stage Industrial Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Seventeam Electronics Co., Ltd. Shinester Enterprise Co., Ltd. Shinester Enterprise Co., Ltd.	D326 C622 T3033 B710 A1014 T3083 D106 T3068 A409 A337 C613 C513 D401 C610 D102 0/8910P/ 16/B916P T3002 C524 A819 D314 A1321 C219 A234 A1012 A1022 FP/B938P D134 T3071 C120

Shuang Yu Industries Co., Ltd.	T3003	Taicom Data Systems Co., Ltd.	A229	Union Genius Computer Co., Ltd.	C525
Siblings Over Sea Co., Ltd.	A1216	Tainet Communication System Corp.	A437	United Hitech Corp.	D625
Sicon Peripheral Co., Ltd.	C221	Taisi Science Technology Ltd.	A1106	United Information Systems Co., Ltd.	C712
Silicon Integrated Systems Corp.	000 (0100)	Taiwan Bor Ying Corporation	T3046	Unitron Incorporated	B306
B1229/B1230/B1231/B1232/B1		Taiwan First Line Electronics Corp	T3062	Universal Components Co., Ltd.	A920
Silitek Corporation	T3F1	Taiwan Industrial Fastener Corporation	A1415	Universal Scientific Industrial Co., Ltd.	
Sima Technology Co., Ltd.	C223	Taiwan Multimedia, Inc	D318	Up Select Electronic Co., Ltd.	C926
Sine Tec Technology Co., Ltd.	C517	Taiwan Mycomp Co., Ltd.	T203	Upgrade Tech Computer Co., Ltd.	D613
Sinew Technology Co., Ltd.	C1138	Taiwan Name Plate Co., Ltd.	C729	Utorn Technology Inc.	A929
Sinoca Enterprises Co., Ltd.	A403	Taiwan Oasis Enterprise Co., Ltd.	A921	V	
Sinonar Corporation	C1019	Taiwan Semiconductor Co., Ltd.	C1120	V	
	B234	Taiwan Semiconductor Manufacturing Co., L		V Jet International Co., Ltd.	C227
Six-Sigma International Co., Ltd			.IU. A024	V-Star Electronics Inc.	C222
Sky Well Technology Corp.	D515	Taiwan Shin-G Tech International Co., Ltd.		V-Tech Computer Industrial Corp.	C638
Skyline Computer Co., Ltd.	T3044	Taiwan Tai-Hao Enterprise Co., Ltd.	C322	Varta Battenes Pte Ltd.Taiwan Branch	
Skywell Technology Corporation	D415	Taiwan Tornado Co., Ltd.	A207		A604
Smartech Technology Inc.	C1015	Taiwan Union Glass Ind. Co., Ltd.	T3017	Via Technologies, Inc.	7004
Soaring Technology Co., Ltd.	D219	Taiwan Video & Monitor Corp.	D305	View Sonic International Corporation	3:007/0:000
Solid Year Co., Ltd.	C819	Taiwan Video System Co., Ltd.	D215	B1126/B1128/B1225/B1226/B	
Solomon Technology Corp.	A925	Taiwan Zetatronic Industrial Co., Ltd.	A1019	Viewcome Co., Ltd.	C1133
	C328	Tamarack Telecom Inc.	C716	Vision Top Technology Co., Ltd.	D406
Soltec Technology Co., Ltd.				Visionetics International	D723
Soltek Computer Inc.	D729	Tans Co. Ltd.	D418	Volktek Corporation	A440
Soyo Computer Inc.	D402	Task International Inc.	D919		
Sparkle Trading Co., Ltd.	T3107	Tatung Co.	T101D	W	
Spectrum Technologies Corporation	A139	Team Shine Electronics Co., Ltd.	D220	Wantec Electronics Co., Ltd	A1126
SPI Electronic Co., Ltd.	A708	Technica House Inc.	B337	Wayjet Technology Inc.	A1424
Spica Computer Corp.	B426	Teco Information Systems Co., Ltd.	T104	Wealhand Enterprise Co., Ltd.	C1233
Spica Industrial Corp.	B329	Tekram Technology Co., Ltd.	D830	Weli Science Co., Ltd.	C1028
	C1219		A1417		
Spot Technology Inc.		Tennrich International Corp.		Well Best Product Co., Ltd.	A1220
Spotlight Carry World Co. Ltd.	T3082	Termtek Computer Co., Ltd.	A311	Well Communication Corporation	A237
Spring Spread Enterprise Co., Ltd.	A906	Test Research, Inc.	A1115	Well Excellent & Most Corp.	A1117
Standard Microsystem Corporation		Texas Instruments Taiwan Ltd.	T402	Well Join Industry Co., Ltd.	B317
B1110/B1112/B1	1114/B1116	Tfl Lan Inc.	A413	Well Run Hardwares Co., Ltd.	T3063
Startech Computer Products Ltd.	C1207	The Bauer Group Company	B128	Welland Industrial Co., Ltd.	C1130
Startek Engineering Inc.	C1229	Tigerex Enterprise Co., Ltd.	C838	Wellong Electronics Co., Ltd	C923
State Of Arizona U.S.A. Department Of		Ting Immediately Industrial Co., Ltd.	T3026		D724
State of Arizona C.S.A. Department of			C325	Win Lan Enterprise Co., Ltd.	
6 6/	B736	Tm-Link Inc.		Win Technologies Co., Ltd.	D321
State Of Utah International Business		Tone Tide Filter Web Co., Ltd.	T3024	Win Win Precision Industrial Co., Ltd.	A1322
Development Office	B730	Top-Power Electronic Co., Ltd. Taiwan	C1036	Winbond Eletronics Corp.	A508
Storage System Inc.	B333	Top-Thunder Technology Co., Ltd.	B124	Winco Electronic Co., Ltd.	D626
Strong Man Ent. Co., Ltd.	C937	Topbest International Inc.	T3020	Winfortune Enterprise Co., Ltd.	C123
Sumdex Group Ltd.	T3036	Topower Computer Ind. Co., Ltd.	A815	Wing-Tech Enterprise Co., Ltd.	A912
Summit Computer Technology Co., Ltd.		Tops Ccc Products Co., Ltd.	D514	Wingtop	C836
Sun Echo International Co., Ltd.	T3066	Toshiba Electronics Taiwan Co.	50.		A1212
			25/0027	Winskon Cabling Specialist Co., Ltd.	
Sun Young Electronics Inc.	B433	B834P/B836P/B838P/B933/B9		Wintech Electronics Corp.	A1015
Sunflower Systems, Inc.	B330	Total Technologies Ltd.	C733	Wintop Technology Inc.	B418
Sung Forn Co., Ltd.	C1037	Totem Technology Co., Ltd.	D614	Wiretek Computer Limited	C737
Sungelit Corp.	T3091	Touchpls Technology Co., Ltd.	D313	Wonderful Wire Cable Co., Ltd.	A924
Sunix Co., Ltd.	D622	Transcend Information Inc.	D325	World-Famous International	
Sunny Technologies Co., Ltd.	C334	Transverse Industries Co., Ltd.	T3059	Development Co., Ltd.	A307
Sunnytekinformation Co., Ltd.	C811	Tremon Enterprises Co., Ltd.	C226	World-Top Enterprise Co., Ltd.	A1108
Sunnyview Technology Co., Ltd.	A713	Trident Microsystems (Far East) Ltd.		Wytron Technology Co., Ltd.	C535
Sunonwealth Electric Machine	717.0	Taiwan Branch (B.W.I.)			0000
	A1225	B1136/B1138/B1235/B1236/B123	87/B1238	X	
Industry Co., Ltd. Sunpower Technology Corp.	A822	Triple Force Inc.	B130	Xinetron Co., Ltd.	A114
Surrey Tochoology Corp.			C529	Y	
Sunrex Technology Corp.	B204	Tripod Technology Corp.		•	0000
Suntek Compute Co., Ltd.	A1207	Truedox Technology Corporation	C726	Yamadatech Industrial Co., Ltd.	C637
Super Elite Technology Co., Ltd.	C1031	Trueful Electronics Co., Ltd.	C813	Yeong Yang Technology Co., Ltd.	A1129
Super Gate Technology Co., Ltd.	C636	Turbo Electronics Co., Ltd.	A909	Yes Technology Inc.	A1009
Superpower Computer Co., Ltd.	D416	Twincom Inc.	C931	Yes Way Enterprise Corporation	A1210
Supertech Computer Co., Ltd.	A208	Twinhead International Corp.	B310	Yoga Electronics Co., Ltd.	C117
Surcom Technology Corp.	A134	Tyan Computer Corporation	B821	Yosun Industrial Corp.	C1119
SVEC Computer Corporation	A221	11		Yuan Yuan Enterprise Co., Ltd.	D409
Symphony Group International Co., Ltd		U			
Syn Electronics Co., Ltd.	A913	U-Strong Tech Corp.	A1217	Yung Fu Electrical Appliances Corp., t	-to: 01124
		Ulan Co., Ltd.	A1209	Z	
Syncan Corporation	C826	Ulead Systems, Inc.	B236	Z-Com, Inc.	A109
Synertron Technology Co., Ltd.	D421	Ultima Associates Pte Ltd.	C1211	Zebex Industries Inc.	C330
Syntech Information Co., Ltd.	C433	Ultima Electronics Corp.	C212	Zeble Corporation	A426
Syntran Co., Ltd.	C1113	Umax Data Systems Inc.	B534		A808
Sysgration Ltd.	C617		A1222	Zecks Enterprise Co., Ltd.	
Systemsoft Corp.	B922/B924	Unfosa Technology Co., Ltd.		Zero One Technology Co., Ltd.	C1223
T		Uni Class Technology Co., Ltd.	A210	Zida Technologies Limited	B926/B928
	-	Uniconn Corp.	A1013	Zippy Shin Jiuh Corp.	A1030
T-Best Corp.	T3096	Unicorn Computer Corp.	D606	Zomas Associates & Co.Ltd	T3081
T.N.C. Industrial Co., Ltd.	D526	Uniform Industrial Corp	A218	Zylux Acoustic Corporation	C318
TA Horng Wood Enterprise & Musical		Unifosa Enterprise Co., Ltd.	A724	Zyxel Communications Corp.	A428
Instrument Co., Ltd.	C126	Unikey Electronics Co., Ltd.	C824	-,	
		,			



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Road-Warrior PCs

otebook computers are now powerful enough to serve as desktop systems. But high function and portability make careful selection critical. For true portability, look for a notebook with a built-in modem or a modem on a PC card. If it's built-in, make sure it's upgradable so you can keep up with changes in communications standards.

The following are the most important factors in picking the right notebook from those you'll find at this year's Computex.

Processor/Clock speed Portable Pentiums abound, ranging from 75 MHz for entry-level uses to 300 MHz for demanding applications. Our advice: Buy the fastest processor you can afford.

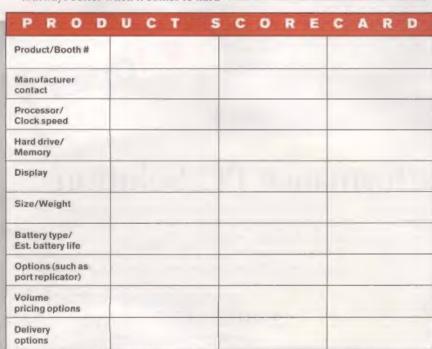
Pentium II and MMX portables are now inexpensive enough to make them top choices. One such state-of-the-art note-book is Innolab's 9820 series, a 300-MHz Pentium II with a built-in camera, lithiumion battery, 56-Kbps modem, two USB ports, up to a 15-GB hard drive, DVD-ROM drive, and more. The FIC 7000-series note-books also have built-in digital cameras for truly portable video conferencing.

Hard drive/Memory options Bigger is always better when it comes to hard disk size, but beware: Bigger can mean heavier. Look for a notebook with a hard drive capacity of at least 1 GB. If you need more storage space, a removable drive that can be connected through a parallel or SCSI slot, such as the Iomega Jaz, is a very good investment.

Upgrading memory later on is almost always expensive with notebook computers. Buy the most, and the fastest possible, with your new machine.

Display Screen sizes for portables start at about 9 inches and go up to over 14 inches. Here, too, remember that the larger the screen, the heavier (and often more expensive) the notebook. Active-









matrix (TFT) screens offer the advantage of clarity in a small design.

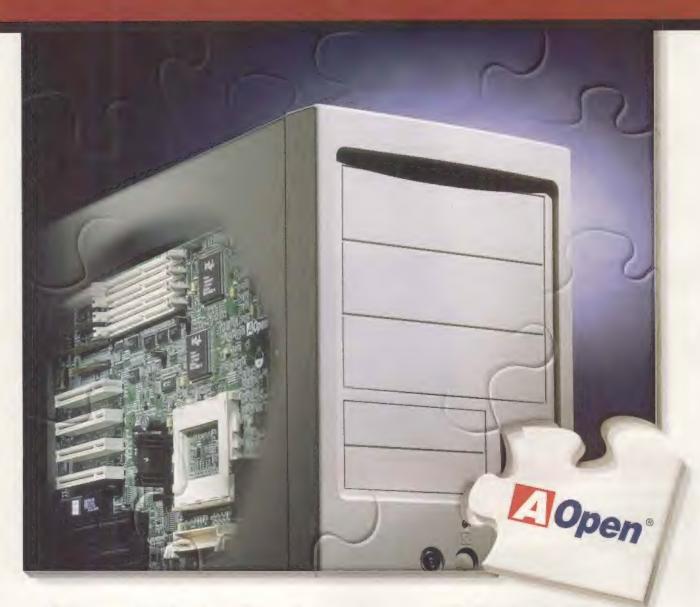
Size/Weight Notebooks can range from 4 pounds all the way up to a hefty 30 pounds, depending on battery weight, drives, and peripherals. Acer's Extensa 700 is one of the most compact and light all-in-one laptops currently available. It houses a CD-ROM, floppy, and hard drive, plus a fan, yet is only 44-mm thick and 6.7 pounds. Its exceptional light weight is the result of a new material, the details of which Acer is currently holding confidential.

For average use, look for a notebook that weighs around 6 pounds. If you truly need anything less, consider giving up the floppy or CD-ROM drive or moving to a subnotebook such as the Acer Extensa 310, which weighs only 1.2 pounds but includes a Pentium MMX and an 8.4-inch screen.

Battery Lithium-ion batteries are more expensive and are found in higher-end notebooks, but they recharge more efficiently than nicads and hold a longer charge. Thanks to lithium batteries, the Acer's TravelMate 8000 runs for 12 hours. The TravelMate 8000 is 45 mm thick and weighs 7.2 pounds.

Port replicator A port replicator connects to the back of the notebook, letting you connect a desktop monitor, keyboard, mouse, and other peripherals. For as little as \$100 extra, a port replicator makes taking your notebook from the desktop to the road as easy as plug and play.

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Motherboards: Not Just for New PCs



he motherboard isn't just for new computers; motherboards frequently are used to upgrade older systems. That's more expensive than adding an accelerator board or a new processor, but a new motherboard's ability to accept faster memory and newer, more powerful components can speed overall performance, and may avoid potential compatibility problems.

Form factor When choosing a motherboard, first decide on the shape and style best-suited to your needs. Giga-Byte's GA-686BX is an excellent example of the "Baby AT" style, with new support for ACPI and BIOS-level compliance for Year 2000 problems. Baby AT motherboards generally require external connectors or add-in cards for all ports.

ATX, another common design, has onboard plugs for I/O, room for full-length cards in all slots, and a CPU that's often placed in front of the fan. Typified by Giga-Byte's new GA-686ABX, these generally offer more efficient cooling.

Processors supported Non-Pentium II or non-Intel CPUs such as those from Cyrix/IBM and AMD need a motherboard with a Socket 7 processor slot. Pentium

II processors require different—and much larger—Slot 1 connectors.

Advanced Information's DX6B and AX6B are excellent examples of Slot 1 configurations prominently displayed on the show floor. These are dual- and single-processor motherboards with an on-board Adaptec SCSI II controller. Each offers jumperless software configurations and a batteryless design with the BIOS backed up on an EEPROM.

Supporting chip sets The glue that holds everything together, support chips provide the links between the processor and BIOS, memory, etc. The latest chip sets from Intel, the 440VX and LX, combine a high degree of compatibility with support for the latest BIOS features.

You'll see the first examples of PCs with the fast new 100-MHz system bus—replacing today's 66-MHz version. They'll use Intel's latest chip set, the 440BX.

BIOS Best compatibility comes from sticking with name-brand BIOS manufacturers such as Award or Phoenix. Most chip sets today are flash-upgradable, so you'll be able to download the latest flash BIOS update, drivers, and other data from the manufacturer's Web site.



Memory Look for motherboards that support single or dual in-line memory modules (SIMMs/DIMMs). DIMM support offers fast new memory technologies like SDRAM, which promise better performance when coupled with faster processors and a faster system bus.

On-board peripheral support Today's modern motherboards support USB, dual IDE channels, dual serial ports, a printer port, and a PS/2 mouse. Some also include on-board SCSI and on-board sound chips instead of requiring a sound card.

At Computex, be on the lookout for Leadtek, scheduled to release a multimedia motherboard embedding the latest version of the all-in-one MPACT 2 engine. The combination integrates hardware 2-D and 3-D graphics rendering, DVD functions, and sound.

As PCI becomes more common, look for a motherboard with four or more PCI slots. To ensure compatibility with the widest possible range of add-in cards, make sure your choice also includes at least two ISA slots.

Watch for systems that include support for faster AGP graphics as well. Although few applications today support it, AGP promises performance boosts, particularly when combined with the coming 100-MHz system bus.

While not strictly necessary for most users, an infrared COM port, included on many of the motherboards you'll see at the show, is of value to the frequent traveler who needs to quickly synchronize laptop and desktop PCs.

PROD	U	C	1	S	C	0	R	E	C	A	R	D
Product/Booth#												
Manufacturer contact							_					
Form factor												
Processors supported												
Supporting chip sets												
BIOS												
Memory												
On-board peripheral support												
Volume pricing options												
Delivery options												





COMPUTEX TAIPEI JUNE 2~6, 1998 SEE US AT

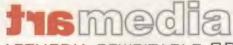
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Lights! Camera! Action!

ultimedia has become a catchall category for devices that make, store, display, and manipulate images, videos, and sounds in almost any combination. Each has its own special requirements; we've listed some of the hottest at Computex.

DVD A high-density drive standard that holds up to 17 GB of data on a two-sided optical disc, DVD's been a long time in coming. New on the market: recordable DVD, a technology that not only brings top-quality video and sound to the desktop, but serves as a storage device as well.

But make sure your PC is up to the DVD challenge. You'll need good graphics with MPEG playback, and a high-quality sound card. Many DVD upgrade kits come with these options.

CD-RW Formerly known as CD-E (erasable), CD-RW uses phase-change tech-

nology to record, erase, and re-record data using discs. The results are readable in any CD-ROM drive that supports the new MultiRead specification.

Video/graphics boards When it comes to video memory, more is definitely better. Extra memory on a graphics card boosts your system's performance, since it allows more image processing to be done outside the CPU. Look for at least 4 MB; we recommend 8 MB or more. Gainward's AGP adapter, which uses the 128-bit RIVA 128 ZX chip from nVidia, comes in 4-MB and 8-MB versions.

Intel's new Accelerated Graphics Port (AGP) standard can boost graphics performance considerably, especially for games. It requires an AGP-bus slot or AGP graphics integrated on the motherboard. No AGP? Stick with PCI graphics.

For exceptionally high performance, the Glint chip is a top choice. Leadtek's



WinFast 3D L3100 AGP graphics adapter uses three Glint chips to perform setup, geometry, lighting, and rendering.

The WinFast 3D S800 all-in-one AGP graphics adapter uses the latest version of Mpact 2, integrating hardware 2-D and 3-D graphics rendering, complete hardware DVD function, TV-output, video capture, wavetable synthesis, and more.

MPEG is a video compression standard that achieves very high compression rates by storing only the changes from one frame to the next. MPEG-2 offers resolutions of 720 by 480 and 1280 by 720 at 60 frames per second, with full CD-quality audio, sufficient for TV broadcast. It's available in software applications or, for faster performance, on a video card that incorporates MPEG in hardware. Separate MPEG encoder/decoder adapters are also available.

Chromatic Research's Mpact 2 is unique because it's a multimedia processor that can do just about anything, including 2-D and 3-D graphics acceleration with DVD decoding functions, Dolby AC-3 surround sound, support for 56-Kbps modems, and more.

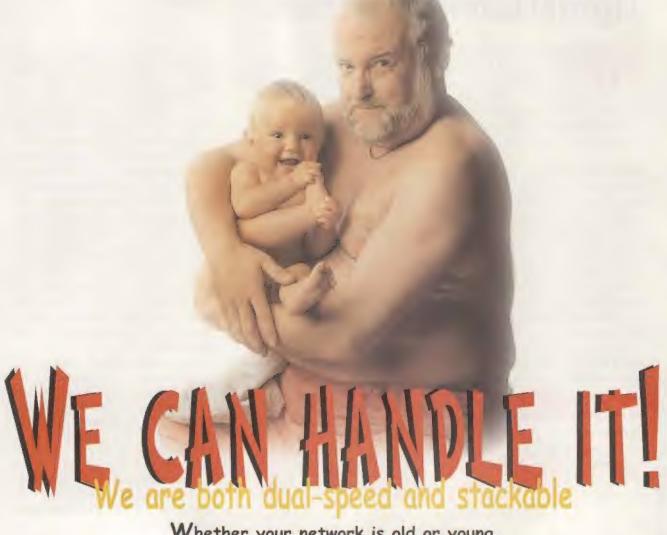
Sound Few new PCs lack sound capabilities, but when shopping for a new sound card, look for Sound Blaster compatibility. The budget-minded can opt for sound cards using FM synthesis to translate digital data into sound but wavetable technology gives better-quality audio.

Digital cameras Three digital cameras you'll see at Computex take very different approaches to getting the job done. KYE's USB PC camera offers plug-and-play USB compatibility with Win 98 or NT 5.0. It transmits video data at up to 24 frames per second, fast enough for video-conferencing, and has an optional snapshot image-capturing capability.

Mustek's relatively low-cost VDC-810 is a 0.81-million-pixel digital video camera with a local CMOS sensor. For digital videoconferencing, Leadtek's TeleEye DM offers H.320-compliant transmissions. It comes with a 128-Kbps ISDN modem, a remote controller, and support for four inputs.

Product/Booth #						
Manufacturer contact						
Technology						
Form factor						
Read only/ Write once/ Rewritable?						
Capacity						
Data transfer speeds						
Platforms supported						
Resolution/ Memory						
MIDI/Sound Blaster support?						
FM synthesis or wavetable translation?						
Volume pricing options						
Delivery options						

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New Tools to Connect to the Outside World



f the motherboard is the heart of a computer, the local area network (LAN) is its nervous system. PCs connect to a LAN through internal network interface cards (NICs). Network administrators install a router or switch on the LAN to connect multiple networks, or to give users Internet access.

Standard Ethernet connections, running at 10 Mbps, are fast becoming a thing of the past; look for Fast Ethernet (100 Mbps) and Gigabit Ethernet (1000 Mbps) at this year's Computex.

Network Interface cards (NICs) A Network Interface Card plugs into a PC or server, connecting to other computers on the network via cabling. The most popular at Computex are likely to be combination 10/100-Mbps cards, which provide a built-in upgrade path to 100 Mbps.

Hubs The hub is the central connection point for wiring the network. An intelligent hub offers connectivity, internetworking, and network management. Hubs come in three configurations: stand-alone, stackable, and modular.

Stand-alone hubs are least expensive

but provide little or no network management. They're ideal for workgroups or small businesses on a budget. One popular stackable hub that does offer management capabilities, Accton's CheetaHub-3524, is at the show.

Stackable hubs also come in rackmountable designs, such as D-Link's 2600. With the D-Link 2600, the user can start with a single device with four ports and add hubs to 120 ports per stack.

Routers A router intelligently connects one LAN to another and today is sometimes actually integrated with a server. Small office/home office (SOHO) users are eager customers for new, easy-to-manage routers, which offer extra configuration and maintenance software, coupled with telephone or ISDN connectivity, in a low-cost package. If you're in the mar-



PROD	U	C	T	S	C	0	R	E	C	A	R	D
Product/Booth#												
Manufacturer contact												
Туре												
External connections												
Protocols/ Connection types supported												
Ports/Speeds supported												
Transmission speeds supported												
Available options												
Volume pricing options												
Delivery options												



ket for one, make sure it can be upgraded to faster communications technologies, such as T1, frame relay, and DSL or cable modem, as your needs expand.

Switches LAN clients connected to the same hub generally share a single 10-Mbps line between all ports. Switches, on the other hand, dedicate full bandwidth available on the network to every port they connect. A switch can interconnect an entire Ethernet or Token Ring LAN segment using multiple ports, and will increase network performance by breaking a larger network into more manageable segments.

D-Link's FlexSWITCH is a 24-port, highly flexible backbone switch with network management that supports ATM as well as ISDN and Gigabit Ethernet. You can select to configure in the five-slot chassis up to 24 dual-speed NWay ports and up to 16 100BASE-FX fiber or twisted-pair ports.

Accton's 12-port 10/100-Mbps Layer 3 NWay CheetahSwitch-3612, another very high-speed switch you'll see at the show, comes with optional ISDN, ATM, and Gigabit Ethernet modules.

Also watch for GVC's new 24-port Ethernet switch and the ALW-1123, Accton's NWay Ethernet switch. GVC's switch offers 24 10-Mbps ports plus three optional 10/100-Mbps dual-speed ports, with an expansion module for backbone connection of 200 Mbps. The VFD mini console provides friendly management and monitoring functions. The Accton ALW-1123 has 12 autosensing 10-Mbps switch ports, two auto-sensing 10/100 Mbps, and an optional 100BASE-FX or 100BASE-TX expansion module. It comes with the AcerSwitchMan, easy-to-use monitoring and configuring software.

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Scanning for the Best Deals



hoosing a scanner type depends largely upon how you plan to use it. Hand-held and portable scanners may be affordable options if you rarely need to scan in documents, but they'll quickly become tiresome if you scan more than a few pages each day. They also can't boast the higher resolutions and more extensive color capabilities of more expensive scanners.

For applications that demand higherquality output, a sheetfed or flatbed model is a better choice. Flatbed models offer the most flexibility in terms of what you copy, since the object to be scanned is placed on a plate, or bed, of glass. If you frequently copy pages from books, or need to scan in three-dimensional objects, you'll need a flatbed scanner.

Sheetfed scanners accept one sheet of paper at a time. They're particularly good for converting paper documents into electronic form using optical character recognition (OCR) software.

Many sheetfed scanners offer optional multipage feeders for processing large documents. Sheetfed scanners range from the very inexpensive "personal" models to document management systems costing thousands of dollars.

Other scanner choices range from the

very specific slide and photo scanners up to professional-level drum scanners. Drum scanners are the high-end choice because they use more sophisticated sensors called photomultiplier tubes (PMTs) rather than the charge-coupled devices (CCDs) used in other kinds of scanners.

When browsing scanners at the show, keep the following specifications in mind:

Media Some scanners are built for scanning specific types of media, such as slides or photographs. Others are more varied, and can accept slides, photographic negatives, photos, and paper. If your needs are varied, look for a scanner that can handle several types of media, and make sure it's capable of accepting the largest size of paper you plan to scan. Microtek's Skyline TR4000 power scanner, for example, has dual lenses that let you scan 4-by 18-inch originals at up to 2000 dots per inch (dpi), and 12- by 18-inch originals at up to 667 dpi.

Resolution Resolution is a measurement of how many pixels a scanner can sample in a given image, measured horizontally and vertically. Optical resolution is determined by how many pixels it can actually see, such as 600 dpi in one

direction and 600 dpi in the other, which would be read as 600 by 600 dpi. Scanners can insert additional pixels between existing points, creating what's known as an interpolated scan. An interpolated scan might push a 300-dpi image into a 600-dpi scan in this manner.

How much resolution you need depends upon your application. A rule of thumb: For desktop printer output, match the resolution to that of the output device. For professional output, go for the highest resolution possible.

For high-resolution scanning at a midrange price, look at Microtek's Skyline TR2400 flatbed scanner that captures images at a maximum resolution of 1200 dpi. Debuting at the show, it's garnering interest from hobbyists and professionals alike.

Bit depth Where quality is a concern, consider a scanner's bit-depth capability carefully. Color scanners handle varying numbers of colors. The bit-depth of the scanner corresponds to the number of colors possible. Black-and-white scanners, for example, capture 1 bit, in either black or white. Today, 24-bit color is the color standard mainly because that's what most software and printers can handle.

The ViewStation AS12E, which can be seen in Ultima's booth, is a good example of a top-quality scanner with a practical bit depth.

Number of passes Color scanners scan in different ways. Some scan all three colors—red, green, and blue—in a single pass, and others do each color in a separate pass. Three-pass scanners take longer to scan than single-pass scanners, making single-pass the method of choice.

Software Like most hardware, scanners are dependent upon software for operation. Expect to get drivers, calibration software, and assorted applications with your scanner. For easy software access, look at the Primax G2 600 USB, a 600-dpi flatbed scanner that lets you activate Primax drivers and software applications with just the click of a button.

PROD	U	C	T		5	C	0	R	E	C	A	R	D
Product/Booth#													
Manufacturer contact					1								
Туре													
Media supported					T								
Resolutions													
Bit depth													
Single- or multiple-pass?	1												
Software included													
Volume pricing options													
Delivery options				-									

Falling Prices, Rising Features

f the motherboard is the heart of the PC, the server is the heart of the LAN. Dedicated servers handle specific tasks such as file storage, printing, communications, or database queries.

Today's servers combine hot new features with surprising affordability, and an increasing number of small-business-oriented vendors include additional setup and support help as a matter of course. Several factors come into play when choosing a server. Performance isn't the only consideration; you'll also want to check out a server's usability.

CPU Server performance is highly dependent on the CPUs. Consider the number of CPUs, clock speed, and first and secondary cache. For a small network or a dedicated server, a single processor may be enough; here, go for the highest performance possible. Larger networks, or those with heavy computational loads, should consider servers that offer multiple processors.

While you can pump up your hardware to its maximum, keep in mind the limitations of your network operating system; for example, if you need more than a quad-processor server, consider RISC technology rather than CISC. Tatung's COMPstation U60 is a midrange dual-processor Sparc server based on Sun Microsystems' UltraSPARC 60 RISC engines. The Sparc clone performs similarly to its counterparts from Sun Microsystems but is 20 percent cheaper.

Also look for a four-processor system coming from Tatung around June.

Cooling Servers with multiple CPUs and hard drives can run hot unless properly cooled. Look for massive heat sinks and more than one heavy-duty ball-bearing fan that delivers high air volume.

Power supply A server's hard drive is the most common point of failure, but power supplies aren't far behind. If reliable server operation is critical, choose one that uses heavy-duty redundant power supplies. Some manufacturers offer hot-swap options that allow you to change one unit of a redundant power supply without powering down the server. Because line power quality can vary, a high-capacity uninterruptible power supply (UPS) is a necessity.

Storage Type/Capacity The redundant array of inexpensive disks (RAID) provides safe storage and backup for the





network. RAID allows you to string several hot-swappable hard drives together for security. RAID offers varying levels of data security, and can store data across multiple drives to make recovery easier in the event of drive failure.

SCSI drives are the standard for servers because of their ability to multitask commands. Go for the biggest SCSI hard drive your budget will allow. Redundant hard drives protect against failure.

Expansion Look for a good combination of PCI and ISA expansion slots so you can install both 32- and 16-bit cards in the server. As for bays, the more the merrier, for drive possibilities. High-end servers may offer 24 or more drive bays, with optional storage expansion cabinets.

Network management tools Many servers come with management software, such as Intel's LanDesk Server Manager system that you'll find on many of the servers at Computex. It lets managers monitor and manage the network remotely. Mitac's entry-level and midrange servers are one-to-two- and two-to-four-way solutions based on Deschutes Slot 1 and Slot 2 processors. They come with Mitac's own LAN management software.

PROD	U	C	T	5	C	0	R	E	C	A	R	D
Product/Booth#		hari										
Manufacturer contact			United									
CPU(s)	- 1		14-11									
Cooling infrastructure												
Power supply			10									
Storage type/ Capacity			uh	und								
Expansion			mail									
Network management tools			in -									
Volume pricing options												
Delivery options				i ins								